

## ARD Overview

- R2 Climate Change Workgroup Chair
- RSFLAG Energy Subgroup – Caribbean disaster recovery
- NYMTC New York Metropolitan Transportation Council
  - Regional Administrator is a non-voting Advisory Member
- Proposed Realignment – address needs and FTEs

## ARD Current and Future Needs

### Current Needs:

- Air monitoring – new projects keep coming
- Grant work – e.g., EJ Small Grants
- DERA and more generally, mobile source programs – more support
- Other EJ work – now part of core work
- Climate/renewable energy partnership programs, Electric Vehicles
- Air toxics

- SIPs, permits and conformity

### Near Term/Future Work:

- American Rescue Plan monitoring
- ARP Grant work
- New Climate regs
- More EJ
- Infrastructure Bill, already asking for our input on more positions

There seems to be more going on with I/M, states adopting more CA vehicle regs, modeling support for transportation-related GHG inventories, etc, in addition to the voluntary programs...

## ARD Resources and Managing Work

- Not so long ago – ARD had 30/32 positions
- Today – grew to 40 positions; Actively filling 5 vacancies
- 40 – only 3 first line supervisors
- **American Rescue Plan**
  - more monitoring projects and grants - \$50M
  - EJ grants (Reema and Omar and Juan) - \$50M
- **Infrastructure (BIL)** - \$5 BILLION – school buses – 2 new FTE
- Build Back Better, Reconciliation - \$44 BILLION – clean energy/climate

## Ex. 5 Deliberative Process (DP)

## ARD Organization September 2021 – 40 Positions

### Air and Radiation Division (2)

Richard Ruvo, Director  
Matt Laurita, Deputy (Collateral duty)  
Auria Cruz, Admin Assist

Note – Started FY 21 with 32 Positions

### Air Programs Branch (3)

Kirk Wieber, Branch Chief  
Marlon Gonzales      Kathy Doctor

### Air Planning Section (13)

Marina Castro, Section Chief  
Ysabel Banon  
Ken Fradkin  
Nicholas Ferreira  
Omar Hammad  
Gavin Lau  
Ed Linky  
Linda Longo  
Muhammad Bilal Manj (pending)  
Sarah Pender  
Fausto Taveras  
(vacancy)

### Permitting Section (10)

Sullin Chan, Section Chief  
Annamaria Colecchia  
Umesh Dholakia  
Frank Jon  
Lionel MacKenzie  
Brian Marmo  
Viorica Petriman  
Neha Sareen  
(vacancy)  
(vacancy)

### Technology, Transportation and Radiation Branch (14)

Matt Laurita, Branch Chief  
Valerie Askinaski  
Dan Birkett  
Juan Gutierrez  
Emmet Keveney  
Reema Louton  
Oleg Povetko  
Conrad Sherman  
(GS-14 vacancy team leader)  
(vacancy)  
(vacancy)  
(vacancy)  
(vacancy)  
(Ameesha position)

## ARD Proposed Realignment – 40 Positions

### Air and Radiation Division (3)

Richard Ruvo, Director  
(Matt Laurita, Deputy Director)  
Auria Cruz, Admin Assist

### Air Programs Branch (3)

Kirk Wieber, Branch Chief  
Marlon Gonzales  
Kathy Doctor

### Air Planning Section (8)

Marina Castro, Section Chief  
Ysabel Banon  
Ken Fradkin  
Nicholas Ferreira  
Omar Hammad  
Ed Linky  
Linda Longo  
Fausto Taveras

### Permitting Section (9)

Sullin Chan, Section Chief  
Annamaria Colecchia  
Umesh Dholakia  
Frank Jon  
Lionel Mackenzie  
Brian Marmo  
Viorica Petriman  
Neha Sareen  
(Vacancy GS-13 modeler)

### Technical Support Team (5)

(Vacancy - Team Leader)  
Use vice: Castro  
Gavin Lau  
Muhammad Bilal Manj  
Sarah Pender  
Vacancy—Grant PO entry level

### Technology, Transportation and Radiation Branch (7)

Matt Laurita, Branch Chief  
Valerie Askinazi  
Juan Gutierrez  
[Ameesha Mehta-Sampath]  
Oleg Povetko  
Conrad Sherman  
Caroline Snyder

### Mobile Team (5)

(Vacancy – Team Leader)  
Lily Black  
Dan Birkett  
Emmet Koveney  
Reema Loutan  
[Placeholder reminder for Bill  
position]

## **Ex. 5 Deliberative Process (DP)**

# Air Programs Branch

Kirk Wieber, Branch Chief

## What is Regional Haze?

- ▶ Haze is caused when sunlight encounters tiny pollution particles in the air, which reduce the clarity and color of what we see, especially during humid conditions.
- ▶ Section 169A of the Clean Air Act of 1977 set the following national visibility goal:

Congress hereby declares as a national goal the prevention of any future, and the remedying of any existing, impairment of visibility in mandatory Class I Federal areas which impairment results from man-made air pollution.

- ▶ Class I Areas are:

National parks exceeding 6,000 acres, wilderness areas and national memorial parks exceeding 5,000 acres, and all international parks in existence on August 7, 1977.



## **Ex. 5 Deliberative Process (DP)**

# Air Planning Section, APB

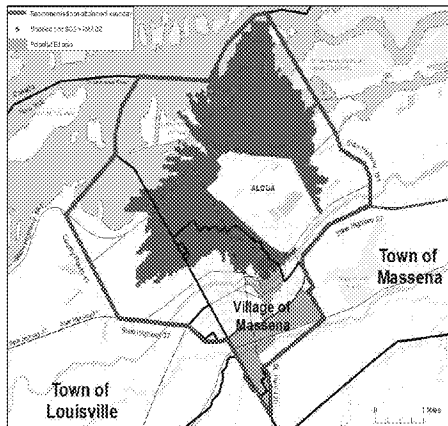
Marina Castro, Section Chief

# Air Planning Section Programs

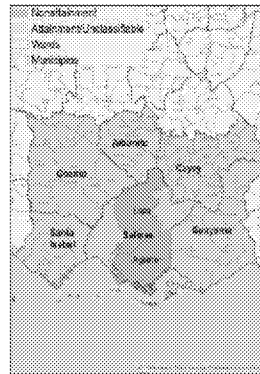
- ▶ State Implementation Plans (SIPs)
    - ▶ 54 Active SIPs in-house
    - ▶ Of highlight are the proposed disapprovals of the 2008 and 2015 Ozone Transport SIPs because the States' analyses failed to evaluate the availability of additional air quality controls to improve downwind air quality at downwind nonattainment and maintenance receptors.
  - ▶ Attainment Plans for SO<sub>2</sub>
    - ▶ New York
      - Alcoa, located in Lawrence County, is the single major source of SO<sub>2</sub> the nonattainment area
- Ex. 5 Deliberative Process (DP)**
- ▶ Puerto Rico Nonattainment Areas

## Ex. 5 Deliberative Process (DP)

## NY & PR Nonattainment Areas



Guayama-Salinas  
Non-Attainment Area



San Juan  
Non-Attainment Area



- Reasonably Available Control Technology (RACT) single source SIPs and EJ

The RACT EJ map will help ARD and NYSDEC visualize which facilities undergoing permit renewals and single source specific SIP revisions are located within EJ communities.

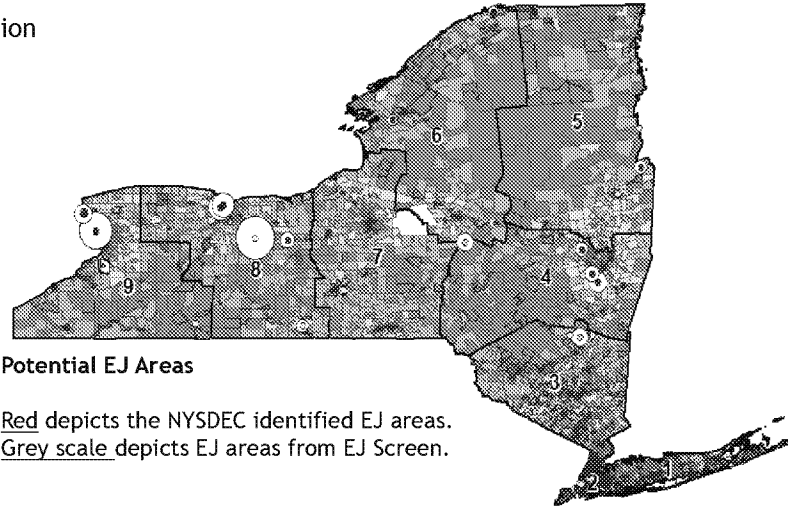
Title V permit expiration  
year:

RED: 2012-2021

YELLOW: 2022-2025

GREEN: 2026-2029

CIRCLE around the  
points represents the  
aggregate VOC and  
HAP emissions for a  
facility using Nat'l  
Emission Inventory  
data from 2011, 2014,  
and 2017.



## ► Monitoring

- Under the American Rescue Plan (ARP) for Enhanced Air Quality Monitoring, ARD has been working with HQ, NY, NJ, PR, VI and SRMT to upgrade 30 PM2.5 monitors with the use of ARP funds.
- ARD is also working to address short term community monitoring needs through the use of ARP funds to procure a suite of transportable monitoring equipment which can be used throughout Region 2 to assist in identifying air quality issues.
- Five ARD staffers are trained to conduct a daily review of the data collected by the 10 monitors operated by Limetree Bay Refining. The review is performed at least two times each business day to identify air quality or technical issues.
- ARD has begun working with DNER on the siting of the 12 SO<sub>2</sub> monitors that PREPA intends to fund and install around their San Juan and Guayama-Salinas facilities that are subject to the SO<sub>2</sub> SIP.

# Permitting Section, APB

Suilin Chan, Section Chief

# Permitting Section - Programs

- Major Source Permitting **Ex. 5 Deliberative Process (DP)**
  - Issue NSR (PSD/NNSR) Permits in PR & VI
    - BACT/LAER Analysis
    - Air Quality Analysis
- Oversee Title V Programs in NY, NJ, PR & VI
  - Authority to Object to 'Bad' Proposed Permits
- OCS Permitting



# Permitting Section - Staff

- 2 Air Modelers

- Air Quality Analysis [PSD/NNSR/OCS]
- SIP Attainment Demonstrations
- Regional Haze Modeling
- PFAS and Air Toxics Modeling

- 5 Engineers/Scientists

- BACT/LAER Reviews [PSD/NNSR/OCS]
- Title V Program Oversight for NY, NJ, PR & VI (Veto Authority)
- NSPS/NESHAP/MACT Applicability Review

## Ex. 5 Deliberative Process (DP)

response:

Project	Size	Location	Application
Ocean Wind	1000 MW	Offshore NJ - Atlantic City	March 2022
Atlantic Shores	2800 MW	Offshore NJ - Atlantic City	June 2022
Empire Wind	2100 MW	Offshore NY - Long Island	June 2022



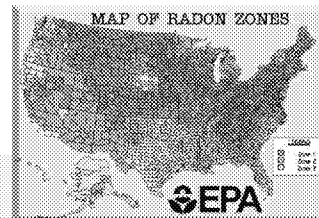
# Technology, Transportation and Radiation Branch

Matt Laurita, Deputy Director & Branch Chief

# Technology, Transportation, and Radiation



**National Clean Diesel Campaign**



## *TJB Sampler Platter*

### *Appetizers - Grant Programs*

Diesel Emissions Reduction Act (DERA)  
State Indoor Radon Grants (SIRG)  
Others (Climate adaptation, Burn Wise outreach)

### *First Course - Regulatory Programs*

Transportation Conformity  
General Conformity  
Inspection & Maintenance  
Fuels  
Radiation NESHAP  
Radiation Emergency Response  
West Valley Demonstration Project  
Mobile source state rules & SIPs (LEV, I/M, idling, etc)

### *Second Course - Voluntary Programs*

National Clean Diesel Campaign  
Ports Initiative  
School Bus Rebates  
Smartway Transport  
ENERGY STAR  
EE / RE Programs (AgStar, Combined Heat & Power, Methane partnership programs, Others)  
Indoor Air Quality outreach and technical assistance  
Radon outreach and technical assistance

### *Dessert - Other Programs*

RadNet  
MOVES modeling and technical support  
Radiation technical support to SEMD

*... and more!*

## Who We Work With...

### In Region 2:

APB  
SPO / SIT / ERT  
Wetlands  
SEMD  
PAO  
Disaster Recovery

### Metropolitan Planning Organizations:

New York Metropolitan  
Transportation Council (NYMTC)  
North Jersey Transportation  
Planning Authority (NJTPA)  
Delaware Valley Regional Planning  
Commission (DVRPC)  
Others in NY, NJ & PR

### Port Authority of NY & NJ

U.S. DOT (FHWA, FTA, MARAD)

U.S. DOE

Army Corps of Engineers

Nuclear Regulatory Commission

Non-Profits, e.g.:

Sustainable Jersey

Clean Cities Coalitions  
Community Organizations  
...more

### Municipalities

NYC Sustainability Help Center

### Universities

### Faith-Based Organizations

Mt. Sinai Pediatric Environmental Health

Specialty Unit

EPA Emergency Response Team

Federal Radiological Monitoring and

Assessment Center (FRMAC)

The Advisory Team for Environment, Food  
and Health (A Team)

### Private Industry, e.g.:

Building Managers  
Breweries  
Restaurants & Food Service  
Tug and Ferry Operators  
School Bus Companies  
...more

### School Districts